

SABIC® LDPE 2501N0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2501N0 is a grade without additives with a low gel level, which combines good draw down ability with fair optical properties and stiffness. Application SABIC® LDPE 2501N0 is typically used in diaper film, surface protection film, lamination film and in applications where low blocking behaviour is required and the presence of slip and anti block is unwanted. Film properties Film properties have been measured at film of 50 µm with a BUR of 3. The film has been produced on Kiefel IBC blown film line with 200 kg/h. Die size 200 mm, die gap 0.8 mm. This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20170531

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 190 °C and 2.16 kg	0.75	dg/min	ISO 1133
Density	925	kg/m ³	ISO 1183 (A)
OPTICAL PROPERTIES			
Haze	10	%	ASTM D1003A
FILM PROPERTIES			
Impact strength	15	kJ/m	ASTM D4272
Tear strength TD	45	kN/m	ISO 6383-2
Tear strength MD	45	kN/m	ISO 6383-2
Tensile test film			
Modulus of elasticity MD	150	MPa	ISO 527-3
Yield stress MD	10	MPa	ISO 527-3
Tensile test film			
Modulus of elasticity TD	200	MPa	ASTM D882
Stress at break MD	25	MPa	ASTM D882
Stress at break TD	20	MPa	ASTM D882
Yield stress TD	12	MPa	ASTM D882
Tensile test film			
Strain at break TD	> 500	%	ASTM D882
Strain at break MD	> 200	%	ASTM D882
Coefficient of friction	0.9	-	ASTM D1894
Blocking	20	g	SABIC method
Re-blocking	< 5	g	SABIC method
THERMAL PROPERTIES			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Vicat Softening Temperature			
at 10 N (VST/A)	98	°C	ISO 306

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, available on the Internet (www.SABIC-europe.com). Additional specific information can be requested via your local Sales Office.

ENVIRONMENT AND RECYCLING

The environmental aspects of any packaging material do not only imply waste issues but have to be considered in relation with the use of natural resources, the preservations of foodstuffs, etc. SABIC Europe considers polyethylene to be an environmentally efficient packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Recycling of packaging materials is supported by SABIC Europe whenever ecological and social benefits are achieved and where a social infrastructure for selective collecting and sorting of packaging is fostered. Whenever 'thermal' recycling of packaging (i.e. incineration with energy recovery) is carried out, polyethylene -with its fairly simple molecular structure and low amount of additives- is considered to be a trouble-free fuel.

QUALITY

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO 9001.

STORAGE AND HANDLING

Polyethylenes resins (in pelletised or powder form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in colour changes, bad smell and inadequate product performance. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because also excessive aging of polyethylene can lead to a deterioration in quality.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.